

CLAIMS

1. A method comprising the steps of:
 receiving a first frame;
5 determining a first frame rate of the first frame;
 determining if the first frame rate was in error to produce an error
determination; and
 updating a state of a speech decoder filter based on the error determination.
- 10 2. The method of claim 1 wherein the step of determining if the first frame rate was
in error comprises the steps of:
 receiving a second frame;
 determining a second frame rate of the second frame;
 comparing the second frame rate to the first frame rate to produce a
15 comparison; and
 determining if the first frame rate was in error based on the comparison.
- 20 3. The method of claim 2 wherein the step of determining if the first frame rate was
in error based on the comparison comprises the step of determining if a transition
from the first frame rate to the second frame rate was invalid.
- 25 4. The method of claim 2 wherein the step of determining the first frame rate
comprises the step of determining a full rate frame and the step of determining the
second frame rate comprises the step of determining an 8th rate frame.
- 30 5. The method of claim 1 wherein the step of determining the first frame rate
comprises the step of determining the first frame rate from a group consisting of full,
half, quarter, and eighth frame rates.
- 35 6. The method of claim 1 wherein the step of updating the state of the speech decoder
filter comprises the step of zeroing out the state of the speech decoder filter.
7. The method of claim 1 wherein the step of updating the state of the speech decoder
filter comprises the step of updating the state of a filter from a group consisting of a
pitch filter, a vocal tract filter, and a post filter.
8. The method of claim 1 wherein the step of determining if the first frame rate was
in error comprises the step of determining if the first frame was a signaling frame.

9. A method comprising the steps of:
receiving a first frame;
determining a first frame rate for the first frame;
5 receiving a second frame;
determining a second frame rate for the second frame;
determining, based on the second frame rate, if the first frame rate was in error
to produce an error determination; and
updating a state of a speech decoder filter based on the error determination.
- 10 10. The method of claim 9 wherein the step of determining, based on the second frame rate, if the first frame rate was in error comprises the step of determining if a transition from the first frame rate to the second frame rate was invalid.
- 15 11. The method of claim 9 wherein the step of determining the first frame rate comprises the step of determining a full rate frame and the step of determining the second frame rate comprises the step of determining an 8th rate frame.
- 20 12. The method of claim 9 wherein the step of determining the first frame rate and the second frame rate comprises the step of determining frame rates from a group consisting of full, half, quarter, and eighth frame rates.
13. The method of claim 9 wherein the step of updating the state of the speech decoder filter comprises the step of zeroing out the state of the speech decoder filter.
- 25 14. The method of claim 9 wherein the step of updating the state of the speech decoder filter comprises the step of updating the state of a filter from a group consisting of a pitch filter, a vocal tract filter, and a post filter.

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15. Apparatus comprising:

means for determining a validity of a frame rate;

a speech decoder, coupled to the means for determining, modifying a state of a filter based on the validity of the frame rate.

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16. The apparatus of claim 15, wherein the means for determining the validity of the frame rate of the frame of information comprises means for comparing the frame rate with frame rates of previous frames of information.

10 17. The apparatus of claim 15 wherein the filter comprises a filter from a group consisting of a pitch filter, a vocal tract filter, and a post filter.

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18. A method comprising the steps of:
receiving a plurality of frames;
determining a plurality of frame rates for the plurality of frames;
determining a number of frames having a predetermined frame rate from the
plurality of frame rates; and
varying a characteristic of a frame from the plurality of frames, based on the
number of frames having the predetermined frame rate.
19. The method of claim 18 wherein the step of determining the number of frames
having the predetermined frame rate, comprises the step of determining the number of
^{8th} rate frames.
20. The method of claim 19 wherein the step of varying the characteristic of the
frame comprises the step of varying symbol error rate (SER) threshold based on the
number of ^{8th} rate frames.